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# SCI-TECH NEWS

The Official Bulletin for the Aerospace, Engineering, Nuclear Science, and  
Science & Technology Divisions of the Special Libraries Association.

**Volume 44, Number 2**

**April 1990**



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# SCI-TECH NEWS

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LDEF (Long-Distance Exposure Facility) over Florida in 1984.  
Photo courtesy of NASA,  
Washington, DC.

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## FROM THE EDITOR

This issue includes the first of what I hope will be a regular feature, namely a description of a major sci-tech library. MIT's Aeronautics and Astronautics Library is the first of the series. An effort will be made to present future examples that would collectively cover all the fields of interest of sponsoring divisions. Nominations of future libraries to be described are welcomed.

Another feature is a trial balloon to see if readers are interested in a brief look at the events of a quarter of a century ago. Sometimes we handle current problems better when we have a knowledge of what transpired in earlier years. The new

column, entitled Looking Backward, will consist of items of interest found in STN issues printed 25 years ago.

The first issue with your new editor contained a number of typographical errors and some other awkward slips. Along with my apologies comes my resolve to make each issue as professional looking as possible. Feel free to send me your suggestions for improvement.

The sponsor for this issue is the American Chemical Society. We are most appreciative of their generous support, which we feel warrants having them as our exclusive advertiser for the issue.

ELLIS MOUNT

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# MASSACHUSETTS INSTITUTE OF TECHNOLOGY

## THE AERONAUTICS AND ASTRONAUTICS LIBRARY:

### A Library Profile

By Laurence W. Baltimore and Eileen G. Dorschner

The Aeronautics and Astronautics Library, originally established by the Department of Aeronautical Engineering, became a Branch Library of the Institute library system in July of 1941. As the library evolved, and its collection and user services increased, the close relationship with the Aeronautics and Astronautics Department continued and strengthened. The course of collections development and user services has been influenced by the interaction of the library with the faculty, staff, and students of that department.

#### THE COLLECTION

The Aeronautics and Astronautics Library collection currently includes an estimated 96,000 bound volumes; among these are 8500 monographs, 100 journal titles, and 350 serial titles. Holdings also include 10,000 hard copy society papers, 4,000 microform society papers, 57,000 hard copy technical reports, and 275,000 microform technical reports. The Aeronautics and Astronautics Library has an extensive collection of monographs, both classics in the aeronautics and astronautics field, and current texts in such disciplines as aerodynamics, guidance and control, fluid mechanics, and avionics.

The library collects all Aero/Astro masters and doctoral theses, as well as technical reports from the various laboratories in the Department. The Aero Library holds standard reference books: dictionaries, engineering handbooks,

various histories of aeronautics and astronautics, and guides to military and civilian airborne fleets. Chief among those guides is a complete set of *Jane's All the World's Aircraft* dating back to 1909. The library also collects a number of aerospace standards, including those of the Society of Automotive Engineers, the Aerospace Industries of America, and the U.S. Department of Defense. The library also owns a number of publications on satellites, rockets, and space exploration.

Since the MIT Libraries are a U.S. government depository, the Aero Library receives almost all non-classified technical reports and documents published by the National Aeronautics and Space Administration (NASA). The library receives thousands of technical reports from NASA every year, some in hard copy, but the majority in microform. Of the library's very extensive microform collection, approximately 80% is received from NASA. The Aero Library also owns all of the technical reports of the National Advisory Council on Aeronautics (NACA), the precursor of NASA, disbanded in 1958. This collection, which dates back to 1915, includes many classical works still consulted extensively. Holdings are in hard copy with microfiche back-up. The library also has a full card catalog of NACA technical reports, traced by author and technical report number.

The Aero Library also collects statistical publications of the U.S. Federal Aviation Administration, and reports issued by the

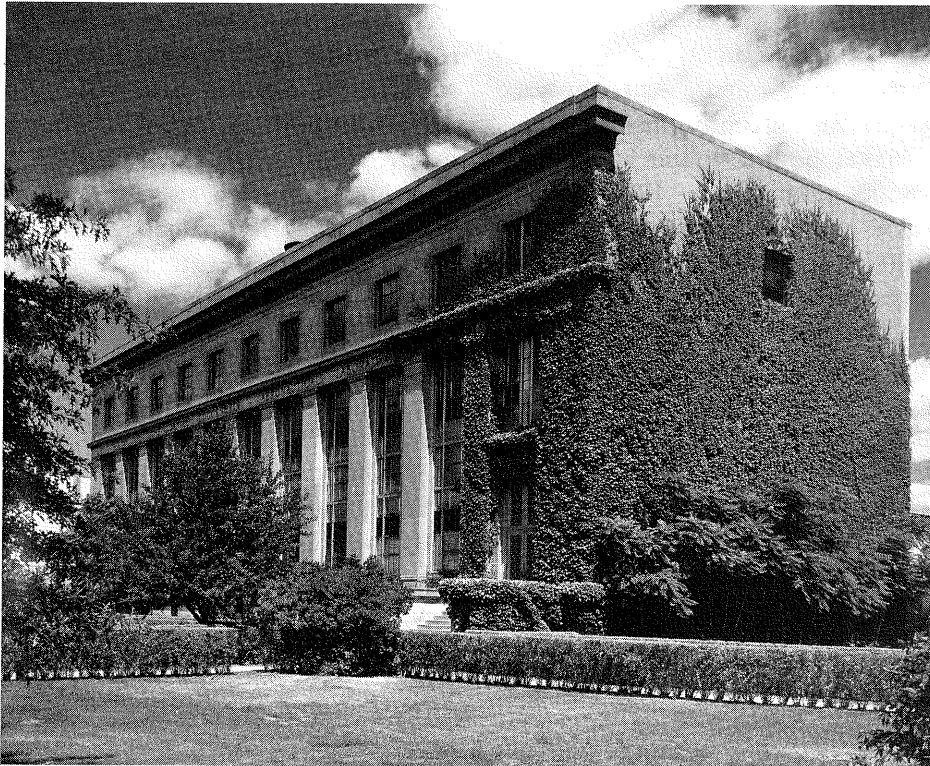
U.S. National Transportation Safety Board. The U.S. Civil Aviation Board ceased operations in 1982, but the library still holds such CAB publications as the *Origin and Destination Survey* and a microfiche collection of Financial Form 41.

Literature of a number of foreign governments and international governing agencies can be found in the Aero Library. Some of the more important areas of this collection include technical reports and conference proceedings of the Great Britain Aeronautical Research Council, going back to 1909, the European Space Agency and the Deutsche Gesellschaft fur Luft und Raumfahrt. An extensive collection of monographs, technical reports, and conference proceedings of the North Atlantic Treaty Organization Advisory

Group for Research and Development (AGARD), as well as publications by its academic subsidiary, the Von Karman Institute, can also be found in the library. Statistical and regulatory series published by the International Civil Aviation Organization are also collected.

Some important private domestic and international societies for which the Aero Library has holdings include:

- The American Astronautical Society
- The American Helicopter Society
- The American Institute of Aeronautics and Astronautics (and its precursor The Institute of Aerospace Sciences)
- The International Astronautical Federation
- The Royal Aeronautical Society
- The Technical Reports Collection



*The Daniel Guggenheim Aeronautical Laboratory, built in 1933, in which the M.I.T. Aeronautics and Astronautics Library is housed.*

*Photo: The M.I.T. Museum*



### Hard Copy

Hard copy technical reports are shelved in the Technical Reports Room. NASA and NACA reports are arranged in report number order, and each report series is bound in a unique color. For library processing, other technical report series are assigned report numbers unique to the issuing agency. The report number begins with an "A" and is followed by a seven or eight digit number. Just to add to the challenge of the Aero Library, those reports received erratically by the library of scores of smaller research organizations and private sources, are assigned an accession number. The number begins with an "A" followed by the year received and a sequence number. Thus a report received from the Boeing Corporation in 1981, that happened to be the fifth received, would be given the report number A81-0005. All of the above year-accessioned reports are shelved in manila folders in chronological order.

### Microform

The greatest number of microform technical reports in the library are those in the NACA and NASA collection. The library receives approximately 300 NASA technical reports per month. They are each assigned an "Nyr.-number" by NASA (e.g.: N88-25058), and it is with this number that the library processes these microfiche on check-in cards. The microfiche technical reports are also assigned Contractor Report, Technical Memorandum and other various report series numbers by NASA. The library cross references these technical

report numbers to the "Nyr.-number" in a designated cross-reference file. The library holds several thousand NACA technical reports on microfiche including Research Memoranda and Wartime Reports (World War II). The Aero Library also receives various U.S. Federal Aviation Administration and other U.S. Superintendent of Documents technical reports in microfiche. For purposes of retrieval, there is a hard copy technical report catalog that traces all reports by author and technical report numbers through 1974. After that date, technical reports are traced by report number only.

### Indices in the Library

The two indices in the Aero Library are the *Scientific and Technical Aerospace Reports (STAR)* of the National Aerospace and Space Administration, and the *International Aerospace Abstracts (IAA)* of the American Institute of Aeronautics and Astronautics. *STAR* abstracts technical reports, monographs, and conference proceedings published by NASA and its subcontractors. These subcontractors include U.S. Government agencies and laboratories, private industrial research groups, and such international entities as the European Space Agency and the North Atlantic Treaty Organization. The *IAA* abstracts journal literature, and conference proceedings of the AIAA, and other U.S. and foreign societies and organizations. The library has several journals, conference proceedings and AIAA Society Papers, so any user would do well to consult both *STAR* and *IAA* when beginning a research project. The



*IAA* has the same format as *STAR*, so bibliographic instruction in one index will serve to orient the user to the other.

However, there is one important difference: In *STAR*, the accession number of "Nyr.-number" is also used by the Aero Library as the operant number to process and identify NASA technical reports. The "Ayr.-number" accession number used by the *IAA* has no significance at the Aero Library. The full *IAA* citation must be examined to retrieve the desired item.

## SERVICES AND FACILITIES

### Borrowing Privileges

Materials at the Aero Library that circulate to authorized users include monographs, theses, serials, journals, technical reports and society papers in both hard copy and microform. The library also lends out portable fiche readers to be used with its microfiche materials. All members of the MIT Community - faculty, staff and students - have full borrowing privileges, as do affiliates of Draper Laboratories. Holders of Privilege Cards, which are available for purchase, as well as members of the Boston Library Consortium and the Industrial Liaison Program, have limited borrowing privileges.

The library endeavors to make all materials available to its users. Certain older materials, such as hard copy theses, Dewey-classified monographs, and early issues of periodicals are in storage at the MIT Libraries Retrospective Collection. These materials can usually be retrieved

for the user within one business day. If the Aero Library does not own a desired piece of literature, the user will be referred to another MIT library, or to the Interlibrary Borrowing Service, located at the MIT Humanities Library.

The Aero Library owns the *Union List of Serials of the Boston Library Consortium*. The Consortium consists of twelve area libraries, including MIT, that share resources. According to a mutual agreement, MIT users can avail themselves of the services of other consortium members. Users are referred to Hayden Circulation to obtain a Consortium borrowing card.

Because so much of the Aero Library collection is on microfiche, the library owns a high quality fiche reader-printer. Users can make fiche-to-paper copies and pay by cash or through their Institute account. If users so choose, they can bring microfiche to the Microreproduction Laboratory in the Hayden Library to have fiche-to-paper copies made there.

The Institute Libraries Online Catalogue is named Barton, after William Barton Rogers, the founder of MIT. Barton includes monographic and serial titles from 1974 to the present; a retrospective conversion project is adding titles from 1963 to 1973. The Online Catalogue is now accessible to users with a modem and terminal. The access telephone number is 617-258-6700. Plans are under way for making Barton available on the campus computer network. It is important to note that although Aero Library monograph and serial holdings are included in this electronic system,

information on technical reports and individual serial issues are not yet available online.

### Online Database Searching

The Aeronautics Library staff has access to a number of computer databases. Searches are done, at library expense, via a microcomputer, and the results of a search can be printed and also downloaded to a diskette. The *Online Ready Reference Guidelines* of The MIT Libraries are used in determining who is eligible for a literature search and how detailed a search should be. In general, members of the MIT Community, and Privilege Card holders are eligible for online searches. In order to focus and clarify the scope of the search, an extensive reference interview is conducted. It has been found that the results of a literature search provide library staff with a good framework for bibliographic instruction. A user with a printed literature search in hand can become a very well educated library user!

The library staff does not perform extended multi-file database searches. If users are in need of more complete online reference service, they are referred to MIT's fee-for-service Computerized Literature Search Service. The Aero Library uses a number of databases through the Dialog network. However, the most informative and flexible database used by the Aero Library is the National Aeronautics and Space Administration RECON database, accessed directly through the NASA computer in Baltimore, Maryland. The RECON database includes all information found in the *International Aerospace Abstracts*, and the *Scientific and*

*Technical Aerospace Reports*. RECON is updated every two weeks. If the library does not own a technical report or society paper cited on RECON, that item can be ordered online for authorized library users. Literature can be ordered in either hard copy or microfiche. Within one to two weeks, the library receives the requested item from either the AIAA or NASA. The ordered item is then added to the collection, and the requesting user notified.

For the last half century, the Aeronautics and Astronautics Library at MIT has been striving to emulate the excellence of the Department and Institute that it serves. To better serve its users, the library is constantly strengthening its collections, and streamlining reference services.

Laurence W. Baltimore attended the Hebrew University of Jerusalem and received a Bachelor of Arts degree in History and a Masters degree in Education from the University of Massachusetts at Amherst. He has been on the staff of the Aeronautics and Astronautics Library at MIT since 1982.

Eileen G. Dorschner received a Bachelor of Science degree in Chemistry from Simmons College and subsequently worked in biochemical research at Harvard Medical School, the University of Wisconsin and the Institut fuer Molekularbiologische Forschung in Braunschweig, Germany. She received her MLS from Simmons College and served as the Assistant Librarian for Chemistry and Chemical Engineering at MIT before being appointed Librarian of MIT's Aeronautics and Astronautics Library in 1989.

## LOOKING BACKWARD

Ellis Mount

### CALL FOR NOMINATIONS

The Association's Nominating Committee is seeking candidates for nomination for SLA's Spring 1991 elections. All Association members are invited and encouraged to submit names and qualifications of individuals they would like to have considered for President-Elect, Treasurer, Chapter Cabinet Chair-Elect, Division Cabinet Chair-Elect and Directors to:

Frank H. Spaulding  
Chair  
SLA 1991 Nominating Committee  
910 River Road  
Piscataway, NJ 08854

Members of the 1991 Nominating Committee are: Frank H. Spaulding, Chair; Malcolm C. Hamilton, Paul M. Kleinfelter, Rue E. Olson and Susan J. Shepherd.

Names of recommended individuals must be submitted by May 1, 1990.

Sci-Tech News, Spring 1965.

The burning issue of the times was the question of whether or not the Sci-Tech Division should divest itself of its eight sections: Aerospace; Chemistry; Engineering; Nuclear Science; Paper and Textiles; Petroleum; Pharmaceutical; and Public Utilities. Their total membership was around 2,600, which was nearly 57% of the entire SLA. About that time Sci-Tech Division members had voted approval of a proviso to the effect that a member could belong to only one section, which brought a drop in membership totals for most of the sections.

The issue contained 11 pages of letters to the Editor (surely an all-time record), mostly on this issue. Writers included many prominent members; there was an even split on the idea of encouraging sections to become divisions. Herb White favored Fred Oxtoby's proposal for having the sections become divisions, then creating a federation of similar divisions within SLA.

Some creative plans were proposed; Walter Kee suggested that SLA reorganize itself into 4 divisions: Business/Finance; Social Sciences; Technology; and Science. Each existing section would continue as sections in the new divisions. Sci-Tech News would continue to be published by the Science and Technology Divisions.

Interestingly enough, the viability of STN was discussed in several letters; few, if any, favored its demise.

# ENGINEERING DIVISION

The objectives of the Engineering Division are to provide an association for those having an interest in library and information science as they apply to engineering and the physical sciences and to promote the use of materials and knowledge for the benefit of libraries and other educational organizations.

## FROM THE CHAIR

## FRANCES WOOD



### WINTER MEETING

Mary Ann Schmidt, Engineering Division Chair-Elect, and I attended the SLA Mid-Winter meeting in St.

Louis. This is one of the two times each year that SLA's Board of Directors, division and chapter officers and a number of SLA headquarters staff meet, plan and execute SLA business. Both Mary Ann and I were impressed by the organization and amount of information provided by the Pittsburgh and San Antonio Conference Planning Committee and the resourceful SLA headquarters staff. Everyone attended the general sessions, and we planners for the Pittsburgh Conference met to put finishing touches to our programs while planners for the San Antonio Conference met to begin the process.

### PITTSBURGH IN JUNE

The Pittsburgh Conference promises to be outstanding. Program planners have done an outstanding job of identifying subjects and speakers, and there will be over 200 programs to choose from. Conference plans are now complete, thanks to the help and cooperation of our division officers. The only thing left for me to do is to make airline reservations and look forward to enjoying Pittsburgh in

June. I'm looking forward to seeing many of you there.

The events for the Engineering Division are listed elsewhere in this section, and, as in previous years, we are co-sponsoring programs with other divisions. Schedule time for more than one visit to the exhibit area because it will be impossible to see everything, much less absorb it all, in one session! Don't forget to stop and thank our sponsoring vendors for their generous support.

### Breakfast and Business Meeting

Monday morning we will have our annual business meeting and breakfast. Plan on attending to learn more about our Division's objectives and plans and meet your officers and the scholarship recipients. (In the last newsletter I mentioned Lynn Tinsley had been one of the scholarship recipients. Molly Collins, in charge of this year's student selection, has also been one of our recipients.)

### Hospitality Suite and Open House

The Engineering and Aerospace Divisions are sharing a hospitality suite at the Vista International and will be hosting a joint open house on Monday, Tuesday and Wednesday evenings. Monday evening there will be a special reception, thanks to the sponsorship of Dialog, Engineering Information, Inc., and the Society of

Automotive Engineers. Plan on stopping by all three evenings. An open house provides an excellent way to meet new people, renew acquaintances and talk with our sponsors. Check the bulletin board for the room number and the conference program for the hours.

#### SPECIAL LIBRARIES: OPEN WINDOWS TO THE MIND

A few prints of the Engineering Division's poster are still available.

Gloria Aks will have them at Pittsburgh. The poster sells for \$10.00 and will be available at the Engineering Business Meeting/Breakfast and our hospitality suite.

PAT RICCI

Congratulations to Pat Ricci on the publication of *Standards, a Resource and Guide for Identification, Selection, and Acquisition*. Pat will be in at the Pittsburgh Conference and will be moderating the Standards Workshop.

#### 1990 SLA CONFERENCE ENGINEERING DIVISION

##### Sunday, June 10

11:30 a.m. - 1:00 p.m.

Executive Board Meeting

##### Monday, June 11

7:30 - 9:00 a.m.

Breakfast and Business Meeting

All day session (Co-sponsored with

Advertising and Marketing and several other divisions) "International Information: What We Should Expect - What We Should Know"

10:30 a.m. - 12:00 noon

Part I "Worldwide Information: The Technology Connection"

1:30 - 3:00 p.m.

Part II "Worldwide Information: The Human Connection: North Atlantic"

3:00 - 4:30 p.m.

Part III "Worldwide Information: The Human Connection: The Pacific"

10:30 a.m. - 12:00 noon

Standards Roundtable - (Co-sponsored with Science-Technology) Pat Ricci is the moderator. Primary focus will be on national standards.

7:30 -10:00 p.m.

Open House/Reception (Co-sponsored by Engineering and Aerospace Divisions) Check Conference Center Bulletin Board for Hospitality Suite Room in Vista International.

##### Tuesday, June 12

10:30 a.m. - 12:00 noon

(Planned by Engineering and co-sponsored by other divisions)

"What's New in Patent and Trademark Searching" with representatives from the U.S. Patent and Trademark Office, Chemical Abstracts Service and Chadwyck-Healey Inc.

1:30 - 3:00 p.m.

(Co-sponsored by Library Management's Marketing and Consultants Sections and several other divisions)  
"Marketing Library Services: Where to begin and How to Succeed"

9:00 - 11:00 p.m.

Hospitality Suite Open

**Wednesday, June 13**

1:30 - 3:00 p.m.

(Co-sponsored with Science-Technology and several other divisions)  
"Computer Viruses: Theory and Experiments"

3:00 - 4:30 p.m.

(Co-sponsored with Science-Technology and several other divisions)  
"Computer Viruses: Experience and Policies"

9:00 - 11:00 p.m.

Hospitality Suite open

**Thursday, June 14**

8:30 a.m. - 3:30 p.m.

Field Trip (Co-sponsored by Engineering, Aerospace and Science-Technology Divisions)

Morning - Robotics Institute,  
Carnegie Mellon University  
Gourmet Lunch, College Club  
Afternoon - Tut Exhibit at Egypt  
Hall, Carnegie Museum of Natural  
History

**AVAILABLE JOURNALS**

Judy Kraatz is seeking to donate some duplicate journals she has available:

*AAPG Bulletin* Vol. 67 & 69, 1983 & 1985

*Fortune* Vol. 89 - 112, 1974 - 1980

*Gas Industries* Vol. 76 - 78, 1978 - 1980

*Oil & Gas Journal* Vol. 83 - 86, 1985 - 1988

Contact Ms. Kraatz at Valero Energy Corp., P.O. Box 500, San Antonio, TX 78292-0500, (512) 246-2869.



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Brenda Bonner  
Valmet-Charlotte Inc.  
Applications Engr. Info. Ctr.  
P.O. Box 7467  
Charlotte, NC 28241  
(704) 587-2545

Dawn L. Duddleson  
1610 Nob Hill Ave. N  
Seattle, WA 98109  
(206) 324-9590

Mona D. Bergman  
Loral Fairchild Systems  
300 Robbins Lane  
Syosset, NY 11791  
(516) 349-2590

Shirley Cheng  
Cogswell Polytechnical College  
Learning Center  
10420 Bubb Road  
Cupertino, CA 95014  
(408) 252-5550

Janice M. Goudreau  
Information Crossroads  
6028 Snow Crystal  
Columbia, MD 21044  
(301) 730-3097

June A. Phinney  
Motorola Inc.  
Library  
8000 W. Sunrise Blvd.  
Fort Lauderdale, FL 33322  
(305) 475-5049

S. A. Larkin  
Stone & Webster Engr. Corp.  
Tech. Info. Ctr.  
P.O. Box 5200  
Cherry Hill, NJ 08034  
(609) 482-3443

### SURPLUS SERIALS

The following serials are free to the first requestor to call Laura Kapnick (CBS News, New York) at 212-975-2917:

EBU Review Technical. 1958-1989

EBU Programmes Administration

Law. 1980-1985.

Some indexes are also available.



SLA's 1990 Regional  
Continuing Education Program

### Mainstreaming the Special Library

Toronto	March 30	Sacramento	Oct. 12
Boston	April 20	Philadelphia	Oct. 26
Chicago	May 11	Daytona Beach	Nov. 9

For further information contact SLA,  
Professional Development Section, 202/234-4700.

# NUCLEAR SCIENCE DIVISION

The division has a special interest in Nuclear Science and in advanced energy systems such as nuclear, solar, wind, geothermal, and tidal. Its concern in these fields includes, but is not limited to, research, policy and analysis, development and production.

## FROM THE CHAIR

AUDREY W. CALDWELL

### WINTER CONFERENCE



Eileen Chen, Chair-Elect, and I attended the Winter meeting of SLA in St. Louis, Missouri, January 24-26. The Board of Directors meeting, the Division and Chapter Officers Leadership Training (DACOLT), the Joint Cabinet meeting were only a few of the functions we attended.

St. Louis is a lovely city, where as much effort is spent preserving its history as it is looking to the future. The Arch and Union Station are "musts" for your tour list! I want to thank the St. Louis Chapter for the \*dessert reception at their Public Library. In addition, chapter members took small groups of us "out-of-towners" to their favorite local restaurants -- my group ate at the Catfish and Crystals (another "must"! ). On a more serious note, Eileen began planning for the 1991 Conference while I met with others to finalize our plans for the Pittsburgh Conference.

To help make your plans for Pittsburgh, here is what the Nuclear Science Division has planned:

### 1990 SLA CONFERENCE NUCLEAR SCIENCE DIVISION

#### Monday, June 11

8:00 - 9:00 a.m.

Executive Board Meeting and Continental Breakfast

#### Tuesday, June 12

1:30 - 4:30 p.m.

Program on Rightsizing (Presented in conjunction with the Public Utilities, Metals & Materials, and Advertising & Marketing Divisions)

9:00 - 11:00 p.m.

Open House (Co-sponsored with Metals & Materials Division and the Solo Librarians Caucus)

#### Wednesday, June 13

1:00 - 2:00 p.m.

Program on the effects of deregulation on utilities (Presented in conjunction with the Public Utilities Division)

#### Thursday, June 14

8:00 a.m. - 5:00 p.m.

Field trip with the Public Utilities Division to the Westinghouse Instrumentation Technology and Training Center, the Westinghouse Energy Center, and the Iron City Brewery (with a taste test to finish up the tour!)

The preliminary program should be distributed before this issue is published, so please plan to attend as many of the Division's activities as possible. Don't forget to include time in your schedule to visit the exhibits!

If you are unable to attend but have suggestions/recommendations for discussion at the Division Business Meeting, please call me at (704) 382-0896 or FAX to (704) 373-7826.

Again, thanks to all who have helped me during my term as chair. Serving as chair to the Nuclear Science Division has truly been an experience for me! And I want to thank all our officers and committees for their contributions. I especially want to thank Veronica Johnson, immediate past chair, for all of her assistance. To the members, I challenge them all to become more active in our Division.

#### NOMINATING COMMITTEE REPORT

In June, the Nominating Committee will be pleased to place these two names in nomination:

**Chair-Elect:**

Cynthia Ortiz  
U.S. Department of Energy  
Las Vegas (1991-92)

**Treasurer:**

Juanna Shin  
Lawrence Livermore National Laboratory (1990-92)

I thank the other members of the Committee: Fern Allan (SNL, Albuquerque) and Lois Morgan (CEBAF Library, Newport News, VA).

**Berta Keizur, Chair**  
NSD Nominating Committee

## A Chance To Share

Let your information colleagues know the facts, trends, and theories you're unearthing...As part of SLA's Research Program we would like to develop a mechanism for tracking all types of research within the special libraries community.

News of special librarians' research will be published in *Special Libraries*. The types of research we are seeking covers the spectrum from dissertations and academic research to "action" or applied research projects, studies, and investigations carried out in the workplace. If you are involved in a project of this nature, please share your work with your colleagues by sending a brief description of your project along with contact information to Tobi Brimsek, director, Research and Information Resources, SLA, 1700 Eighteenth Street NW, Washington, DC 20009.

# SCIENCE-TECHNOLOGY DIVISION

The objectives of the Science-Technology Division shall be: to draw together those members of the Special Libraries Association having an interest in the role of library and information science as applied to the recording, retrieval and dissemination of knowledge and information in all areas of science and technology; and to promote and improve the communication, dissemination and use of such knowledge for the benefit of libraries and their users.

## FROM THE CHAIR

WILDA B. NEWMAN

### PITTSBURGH 1990



Enclosed in this issue is a two-page matrix of the Science-Technology Division program. It also shows the SLA General Sessions, Fund Raiser, and the Annual Business Meeting. Other blocks are left open for you to fill in. This is offered as a conference planner for our Division members. The January 1990 issue of *Sci-Tech News* gave details about the events we have scheduled. Pay close attention to how you get your ticket for the Champagne-Dessert, Sci-Tech Reception, scheduled for Monday, June 11, from 9:00 - 11:00 p.m. Plan now to attend and support your Division. Hope to see you there. GET INVOLVED! SIGN UP NOW! Contact me or Monica Ertel, Chair-Elect.

### WINTER MEETING ST. LOUIS, MISSOURI, 1990

Monica Ertel and I were at the Winter Meeting, January 23-26, in St. Louis, Missouri. While there we attended the Open Sessions of the SLA Board of Directors, Division Cabinet, Joint Cabinet, Conference Planning, and Division and

Chapter Officer Leadership Training (DACOLT) meeting on the Winter Conference.

This was my third attendance at the SLA Board of Directors Meeting. I attended my first as Chair-Elect in the Fall of 1988, which was held at SLA Headquarters in Washington, D.C. I wish I had attended one even sooner. I was very impressed, and continue to be impressed, with not only the amount of work these "elected volunteers" do, but also their dedication to SLA and its membership. I highly recommend that all members attend at least some of these sessions. You learn a lot more about how the organization functions, how the different positions support the organization, and that relationship to the infrastructure of SLA -- its Divisions, Chapters, caucuses, and so forth. It also helps you to understand better what is involved in your responsibilities as Chair of a Division or President of a Chapter, and may assist you in a decision to seek these offices.

A number of recommendations go to the Board for their review and approval or disapproval. There are also several reports. These include such things as the Director's Report, reports on Financial matters, Committee work, and so forth. Many of these have associated documents.

I have listed the Agenda for the 1990 Winter Meeting at the end of my report, with the document number, when one

exists. Should you like a copy of any of these, please contact me.

### SCI-TECH WINTER MEETING

This year I scheduled a meeting for the Science-Technology Winter Meeting. The meeting was for the Executive Board, Committee Chairs and members, Liaison people, and any Division members attending St. Louis. My work as Chair this year indicates that we should entertain this idea and consider it as a regular additional meeting. Understanding that travel funds are not always plentiful and that some people may have to select one or so meetings to attend per year, I still feel this is worth discussing at our June Board Meeting. Much of the problem in getting things handled by committees and others lies in the fact that we may only see each other once per year at Annual Conference. The location of the Annual Conference sometimes prevents people from attending that meeting. With two locations for our Board Meetings each year, perhaps more people could attend.

I received inquiries from some Committee Chairs and Committee Members on whether they were expected to attend. If the meetings become more formalized it would perhaps assist members in getting their funding support, especially if they tied that in with attendance at the Mid-Winter Conference and its educational programs.

In attendance were Monica Ertel, Chair-Elect, Ina Brownridge, Past Chair, Mary Ann McFarland, Secretary, and members Dorothy McGarry and Mariann Cyr. We discussed *Sci-Tech News* Division assessments and advertising funds, the 1990 Annual Conference and sponsorship, interim budget report, by-laws, membership in Sci-Tech, awards, projects and publications, public relations, and so forth.

Winter meetings are smaller, more intimate, and less hectic. It could be a place for our officers, chairs, liaisons, committee members, and members interested in getting more involved, to meet and have real planning sessions and accomplish more for our Division membership and SLA. Attend our Board Meetings at the Annual Conference, and let's discuss our future as committed SLA members of the Science-Technology Division.

### VOLUNTEER REPORTERS NEEDED

Please volunteer to attend at least one of the Science-Technology sponsored sessions at the SLA Annual Conference in Pittsburgh as a reporter. Each reporter will then write up their session for *Sci-Tech News*. This gives you publishing experience and provides communications to our membership, especially important for those Science-Technology members unable to attend the Annual Conference.

## SCIENCE AND TECHNOLOGY DIVISION AND LIBRARY OF CONGRESS

Planning sessions are under way between the SLA-Science and Technology Division and the Library of Congress to offer a two-day workshop on "Science and Technology at the Library of Congress." The session will be limited to 50 participants and will be held at the conclusion of SLA's state-of-the-art workshop in October, 1990. More information will be made available as plans are finalized. Start planning now, and watch for the details so you can take advantage of this opportunity to see first-hand how LC can help you in helping your library clientele.

### ELECTIONS - 1990

This year's Nominating Committee did an excellent job in providing us with candidates for the offices of Chair-Elect and Treasurer. Nominees were Richard Hulser, IBM and Dorothy McGarry, UCLA, for Chair-Elect; Ellen Dotterrer, Rohm & Haas Corporation, and Jean Piety, Cleveland Public Library, for Treasurer. The slate of candidates was published in January's *Sci-Tech News*. No other nominees were suggested by the membership.

#### Congratulations to:

**Dorothy McGarry** Chair-Elect

**Ellen Dotterrer** Treasurer

Thanks to all of those involved in the nominating process and a special thanks to

Mary Ann McFarland, Secretary, who handled all the coordination for this event; the Tellers - Doris Helfer (Head Teller), Rand Corporation, Ronda Breitbard; UCLA, Physical Sciences & Technology Libraries; J. Wally Pegram, UCLA, Physics Library; and especially our Nominating Committee - Jean Martin (Chair), Microelectronics and Computing Technology Corporation; Ellis Mount, Columbia University, School of Library Service; LeAnn Weller, University of Kansas, Engineering Library. And, GOOD LUCK TO OUR NEW OFFICERS!

### SCI-TECH NEWS

Our first issue with desk-top publishing came out in January. Not bad for our first try. In subsequent discussions with our Editor, Ellis Mount, he stressed his desire to improve the issues both in the use of desk-top technology and content. If you have expertise in this area or wish to become a member of the editorial staff, contact Ellis or myself and volunteer. We are always interested in new blood and involving more members in all areas of the Science-Technology Division activities.

We are fortunate also this year to have had an increase in advertising income. That January issue was sponsored by Gulf Publishing Company and the current issue is sponsored by Chemical Abstracts Service. If you are in contact with either organization, thank them for their support; at the SLA Annual Conference go by their booths and express your appreciation for their support.



### Conference Program Planner

Date	Saturday June 9	Sunday June 10	Monday June 11
7:30 a.m.- 9:00 a.m.			<div> Sci-Tech Division Breakfast and Business Meeting 7:30 - 9:00 A.M. </div> 2
9:00 a.m.- 10:30 a.m.			<div> GENERAL SESSION I (9:00 a.m.-10:15 a.m.) </div>
10:30 a.m.- 12:00 noon			<div> Standards Roundtable (National) Sci-Tech - Contact Engineering Co-Sponsor 10:30 - 12:00 Noon </div> 3
12:00 noon- 1:30 p.m.			
1:30 p.m.- 3:00 p.m.			
3:00 p.m.- 4:30 p.m.		<div> Sci-Tech Division Executive Board Meeting 3:00 - 5:00 P.M. </div> 1	<div> Electronic Tools for Your Research Needs ISI Sci-Tech - Contact </div> 4
4:30 p.m.- 6:00 p.m.			
6:00 p.m.- 9:00 p.m.		<div> SLA Fund Raiser </div>	
9:00 p.m.- 12:00 midnight			<div> Sci-Tech Open House Champagne and Dessert 9:00 - 11:00 P.M. </div> 5

## Conference Program Planner

Date	Tuesday June 12	Wednesday June 13	Thursday June 14
7:30 a.m.- 9:00 a.m.		SLA Joint Cabinet Meeting (if necessary)	
9:00 a.m.- 10:30 a.m.	GENERAL SESSION II (9:00 a.m.-10:15 a.m.)	SLA ANNUAL BUSINESS MEETING (9:00 a.m.-11:00 a.m.)	All Day Field Trip Robotics Artificial Intelligence Lunch Art Museum
10:30 a.m.- 12:00 noon	Patents Workshop Engineering - Contact Sci-Tech Co-Sponsor 10:30 - 12:00 Noon		Engineering - Contact Sci-Tech Co-Sponsor Aero Co-Sponsor
12:00 noon- 1:30 p.m.			
1:30 p.m.- 3:00 p.m.	Optical Disk Image Storage and Retrieval Systems	Computer Viruses: Theory and Experiments Sci-Tech - Contact Telecom Co-Sponsor Petroleum Co-Sponsor 1:30 - 3:00 P.M.	
3:00 p.m.- 4:30 p.m.	Chemical - Contact Sci-Tech Co-Sponsor PAM Co-Sponsor 1:30 - 4:30 P.M.	Computer Viruses: Experience and Policies Sci-Tech - Contact Telecom Co-Sponsor Petroleum Co-Sponsor Engineering Co-Sponsor 3:00 - 4:30 P.M.	
4:30 p.m.- 6:00 p.m.		SLA Conference Planning Meeting - 1991 4:00 - 5:00 P.M. Sci-Tech Executive Board Meeting 5:00 - 6:00 P.M.	
6:00 p.m.- 9:00 p.m.	SLA Chapter and Division Cabinet Meeting 5:30 - 7:30 P.M.	SLA Reception  SLA Awards Banquet	
9:00 p.m.- 12:00 midnight			

### Actions at Winter Meeting

<u>Recommendation</u>	<u>Action</u>	
<b>A90-39</b> That the Board of Directors approve the actions of the Executive Committee in changing the staff position from Assistant Executive Director, Administrative Services to the Director, Financial Services, effective January 1, 1990, as contained in Agenda Document <u>A90-39</u> .	1990 as contained in Agenda Document <u>A90-43</u> .	Approved
	<b>A90-44</b> That the Board of Directors approve the Calendar of Deadlines for Program Information for the 1991 San Antonio Annual Conference, as contained in Agenda Document <u>A90-44</u> .	Approved
<b>A90-40</b> That the President appoint an ad hoc Board Committee of three people to develop a process for obtaining input from Board members in the evaluation of the Executive Director. One of the Committee members, and the AOOC representative will be the President-Elect. The Committee will bring its recommendation to the June, 1990 Conference.	<b>A90-45</b> That the Board of Directors approve the Dallas, Texas area as the site of the 1994 Winter Meeting, to be held January 26-28, 1994, as contained in Agenda Document <u>A90-45</u> .	Approved
	<b>A90-46</b> That the Board of Directors approve the Resolution opposing the FBI Library Awareness Program, as contained in Agenda Document <u>A90-46</u> , that strongly opposes the actions of the FBI for scrutinizing those individuals who questioned or expressed concern over the Library Awareness Program.	Approved
<b>A90-41</b> That the Board of Directors approve the distribution of the F/Y 1989 surplus as follows: 60%-General Reserve Fund, 20%-Research Fund, 10%-Special Programs Fund, 10%-Executive Development Academy as contained in Agenda Document <u>A90-41</u> .	<b>A90-47</b> That the Board of Directors approve the Resolution commending Bob Chartrand for his diligent efforts in planning and implementing the Association's meeting on "National Information Policies: Strategies for the Future," December 14-15, 1989, as contained in Agenda Document <u>A90-47</u> .	Approved
	<b>A90-48</b> That the Board of Directors support Federal funding of a National Research and Education Network (NREN) and the inclusion of the library community in its development, as contained in Agenda Document <u>A90-48</u> .	Approved
<b>A90-42</b> That the Board of Directors defer any action on the recommendation on the Mortgage Paydown/Payoff motion at the 1989 Fall Board Meeting until the Finance Committee has had sufficient time to examine and discuss the proposal at the 1990 Spring Meeting and be prepared to present a plan of action to the Board at its June 1990 Meeting.	<b>A90-49</b> That the Board of Directors approve the Resolution on Romanian Libraries as contained in Agenda Document <u>A90-49</u> , that	

Approved

Withdrawn

Postponed Until  
June 1990 Meeting

Approved

endorses the ALA Resolution on Libraries in Romania and lends it active support to the appeal for contributions to the IFLA Romanian Relief Fund. **Approved**

#### Other Motions:

That the Board of Directors instruct staff to implement a business travel accident insurance policy for Board members on Association business as contained in Option #1 of Agenda Document **B90-28**. **Approved**

That the Board of Directors refer Agenda Document **B90-32** on Dues Research to the Finance Committee for their consideration and recommendations, if any, and report to the Board at its Fall 1990 Meeting. **Approved**

That the Board of Directors instruct the Public Relations Committee and the Executive Director to take the completed product of the Image Task Force and present to the Board plans for publishing and marketing this publication at the June 1990 Meeting. **Approved**

That the Board of Directors supports conducting a membership survey in 1991 similar to the one completed in 1986, as contained in Agenda Document **B90-44**. **Approved**

That the Board of Directors approve the following formulas for calculating Chapters' allotments effective for allotments to be paid beginning in 1991: **Approved**

- A) Chapters with 110 or fewer members:  
\$657 + \$1.00 per member
- B) Chapters with more than 110 members:  
\$7.15 per member

That the Board of Directors direct the Association Staff to create a public relations "update" column that will appear in every issue of the Specialist summarizing public relations activities including actions taken and monies spent. Also that a detailed accounting of these areas funding be provided to the membership annually. **Defeated**

That the Board of Directors instruct the Association Staff to create a public relations "update" column that will appear in every issue of the Specialist summarizing public relations activities. **Approved**

That the Board of Directors instruct staff to investigate the possibility of including E-Mail addresses in the SLA Membership Directory, for the Board to review and take action on, at the June 1990 Board Meeting. **Approved**

That the Board of Directors recommend that the editorial policy of using lower case for position titles throughout the Conference Program be changed to upper case as befitting those positions. Furthermore, we recommend that there be a space between Division and Committee listing and the session titles in order to clearly identify the program. **Defeated**

That the Board of Directors instruct staff to examine the Association's publications in light of their public relations value and/or impact and in particular with the use of the Chicago Manual of Style and report to the Board at a later date. **Approved**

That the Board of Directors instruct staff to deliver a plan, at the June 1990 Division Cabinet Meeting, to expand regular coverage of Division and Chapter activities in the Specialist and by other means. **Approved**

That the Board of Directors rescind its action of June 1988 regarding Division Continuing Education Courses. **Defeated**

That the Board of Directors instruct the Professional Development Committee to examine the issue of Continuing Education Courses given at the Annual Conference by Divisions or other Association Units and make a recommendation to the Board at its June 1990 Meeting. **Approved**

That the Board of Directors approve that the 1991 Public Relations Plan reflect a more balanced proportion of fund allocation between library and non-library programs. **Approved**

That the Board of Directors charge the Committee on Committees to examine the training and orientation of SLA Committees and present recommendations at the June 1990 Board Meeting to make Committees more effective in fulfilling their charge and participating in the Association's activities.

**Approved**

That the Board of Directors reaffirm its commitment to the development of information standards as contained in the SLA Government Relations Policy.

**Approved**

That the Board of Directors express its thanks and appreciation to the St. Louis Metropolitan Chapter for their hospitality and assistance in making the 1990 Winter Meeting a success.

**Approved**

That the Board of Directors express its thanks and appreciation to the St. Louis Public Library for hosting a dessert reception during the 1990 Winter Meeting and the Ebsco, EKI, and Spacesaver Companies for sponsoring the reception.

**Approved**

That the Board of Directors express its thanks and appreciation to the staff and management of the St. Louis Sheraton for their assistance in making the 1990 Winter Meeting a success.

**Approved**

#### **SLA Board of Directors Winter Meeting Agenda, 1990**

#### **Agenda Item**

#### **Agenda Doc**

1. Call to Order (M. Regan)
2. Roll Call (J. Tchobanoff)
3. Remarks of the President (M. Regan)
4. Approval of the Agenda for the Open Sessions of January 24-26, 1990 (M. Regan)

5. Actions of the Board in the Executive Session of January 24, 1990 (M. Regan)
6. Approval of the Minutes of the Open Sessions of October 26-27, 1989 (M. Regan)
7. Executive Director's Report (D. Bender) B90-51
8. Financial Matters
  - 8.1 Treasurer's Remarks (C. Jones)
  - 8.2 Financial Report, December 31, 1989 (D. Bender) B90-25
  - 8.3 Review of F/Y 1989 Budget (D. Bender) B90-26
  - 8.4 Allocation of F/Y 1989 Budget Surplus (C. Jones) A90-41
  - 8.5 Mortgage Paydown (D. Bender) A90-42
  - 8.6 Merrill Lynch Account Update (D. Bender) B90-27
  - 8.7 Insurance for Board Members (D. Bender) B90-28
9. Membership Development
  - 9.1 Bylaws Amendment Report (R. Haley) B90-23
  - 9.2 Membership Statistics, December 31, 1989 (D. Bender) B90-29
  - 9.3 Plan for Increased Membership (D. Bender) B90-30
  - 9.4 Update on Membership Records (D. Bender) B90-31
  - 9.5 Membership Dues Increase (D. Bender) B90-32
  - 9.6 Addition of FAX Number in Directory (D. Bender) B90-33
10. Association Office Operations
  - 10.1 Executive Director's 1990 Association Management Plan (D. Bender) B90-24
  - 10.2 Where to Turn Guide (D. Bender) B90-34
  - 10.3 Staff Update (D. Bender)
11. Public Relations Activities
  - 11.1 Public Relations Update (M. Erb) B90-35

- |   |        |   |        |
|---|--------|---|--------|
| 11.2 1990 Public Relations Plan (M. Erb)  | B90-36 | 16.2 Actions of the Division Cabinet, January 25, 1990 (B. Paskoff)   |        |
| 11.3 Bibliography on SLA and Special Libraries (M. Erb)                                       | B90-37 | 16.3 Other Division Officer Activities at 1990 Winter Meeting (B. Basch)                                    |        |
| 11.4 Image Task Force Update (J. Clifton)   |        | 17. Actions Taken at the Joint Meeting of Chapter and Division Cabinets, January 25, 1990                   |        |
| 12. Government Relations  |        | 18. Committee Activities  |        |
| 12.1 Information Policy Meeting Update (D. Bender)  | B90-38 | 18.1 Committee Mid-Year Reports (M. Regan) - Networking Committee   | B90-45 |
| 12.2 Government Relations Update (D. Bender)  | B90-39 | 18.2 Comments of Board Proctors on the Activities of Non-Reporting Committees                               |        |
| 12.3 1990 Legislative Platform (D. Bender)  | A90-43 | 18.3 Committee Chair Training (R. Battaglia)  | B90-46 |
| 12.4 Fund Development Update (D. Bender)  | B90-47 | 19. Interassociation Representatives  |        |
| 12.5 Resolution on the FBI Library Awareness Program (D. Bender)                              | A90-46 | 19.1 NISO Representative (D. Bender)  |        |
| 12.6 Resolution Commending Robert Chartrand (D. Bender)                                       | A90-47 | 19.2 Mid-Year Reports from SLA Representatives (M. Regan)   | B90-49 |
| 12.7 WHCLIS II Conference Update (D. Bender)  | B90-40 | - CIP Advisory Group  |        |
| 13. Professional Growth   |        | - ALA/RTSD/CSS Committee on Cataloging: Description and Access  |        |
| 13.1 Executive Development Academy Update (K. Hackl)  | B90-41 | 19.3 Library of Congress Network Advisory Committee (S. Ladner)   | A90-48 |
| 13.2 Information Resources Center Update (K. Hackl)   | B90-43 | 20. Caucus Activities   |        |
| 13.3 State-of-the-Art Institute IV (K. Hackl)   | B90-48 | 20.1 Solo Librarians Annual Report (R. Evans)   | B90-50 |
| 13.4 Membership Super Survey (K. Hackl)   | B90-44 | 21. IFLA Matters  |        |
| 14. Conference and Meetings   |        | 21.1 Final Report on 1989 Conference - Paris (F. Spaulding)   |        |
| 14.1 Report of Pittsburgh Conference Planning Committee (C. Kelley)                           |        | 22. Other Business  |        |
| 14.2 Calendar of Deadlines for Program Information 1991 San Antonio Conference (R. Battaglia) | A90-44 | 23. Announcements   |        |
| 14.3 1991 Annual Conference Update (L. Parris)  |        | 24. Adjournment   |        |
| 14.4 Site Selection of 1994 Winter Meeting (R. Battaglia)                                     |        |   |        |
| 15. Chapter Activities  |        | NOTE:   |        |
| 15.1 Chapter Activities, June 1989 - January 1990 (M. Tebo)                                   |        | Contact Wilda Newman (301) 953-5721 to order any copies you would like of the agenda documents noted above. |        |
| 15.2 Actions of the Chapter Cabinet, January 25, 1990 (M. Tebo)                               |        |   |        |
| 15.3 Other Chapter Officer Activities at 1990 Winter Meeting (R. Funkhouser)                  |        |   |        |
| 16. Division Activities   |        |   |        |
| 16.1 Division Activities, June 1989 - January 1990 (B. Paskoff)                               |        |   |        |

**THE NATIONAL ONLINE  
MEETING CELEBRATES ITS  
ELEVENTH YEAR  
May 1-3, 1990**

The National Online Meeting will celebrate its eleventh consecutive year; May 1-3, 1990. Held at the Sheraton Centre Hotel, New York City, the meeting has become the principal forum where those concerned with changes in the database field meet, discuss, and formulate strategies for future action.

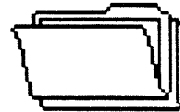
New last year, Integrated Online Library Systems (IOLS) has become a "conference within a conference" at the National Online Meeting. A complete IOLS '90 program has been organized to take place on May 2 and 3, 1990. Plenary sessions, technical papers, and product reviews from leading library system providers will be presented during the two-day event. The theme of IOLS '90 is "Converging Functions, Diverging Technologies, Growing Options."

For the third year in a row, the National Online Meeting will host a separate exhibition for those interested in seeing CD-ROM products in action. Called "CD-ROM Gallery," the exhibit will provide attendees with the opportunity to see over 40 of the leading optical disc products and make the cost and performance evaluations vital to informed purchasing decisions. CD-ROM Gallery will be open all three days of the conference, 10:00 a.m. to 6:00 p.m., Tuesday and Wednesday, May 1 and 2, and 10:00 a.m. to 4:00 p.m. on Thursday, May 3.

"Highlights of the Database Industry and the Quality of Information," given by Martha Williams, program chairman, will open the eleventh meeting. There will be three days of presented papers and product reviews, and the exhibits will include more than 130 different organizations, plus a special section on Integrated Online Library Systems. Special one-day seminars will be held on the Monday (April 30) before and the Friday (May 4) after the three-day conference. Topics covered include: Information Brokering; the CD-ROM Challenge, Multimedia/Hypermedia Applications, and the ever popular Electronic Publishing Seminar.

**Special Libraries Association**

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- It saves employers time and money by referring only those candidates whose employment objectives match the key characteristics of the position.
- For the job-seeker, it is an effective means of making job contacts, and increasing opportunities for obtaining a position.

For further information contact SLA, Professional Development Section, 202/234-4700.



# AEROSPACE DIVISION

The objectives of the Aerospace Division are to encourage the free exchange of ideas and information between libraries and librarians who are directly concerned with aerospace technology and related sciences, and to maintain a dialog with NASA and other governmental agencies upon whom we rely as sources of technical data and bibliographic sources.

## FROM THE CHAIR

LYNN ECKLUND

### WINTER CONFERENCE



Phyllis Fisher, Chair-Elect, and I represented the Aerospace Division at the SLA Winter Conference this past January in St. Louis. Coincidentally, Phyllis manages the McDon-

nell Douglas Libraries in St. Louis and lives just a few miles outside the city -- so besides arranging for clear weather for the three-day event, she was also able to provide this Southern Californian with lots of good inside views of the city.

Our time was spent attending meetings of the Board of Directors and the Division, Chapter and Joint Cabinets. You will be happy to know there will be no increase in dues next year. Also, SLA Headquarters is gearing up to increase its public relations activities. You should be seeing a renewed publicity campaign in national and local media, especially in conjunction with National Library Week, April 22-28, 1990.

The majority of effort was focused on conference planning. We are happy to report that plans for San Antonio (1991) are now under way and that Pittsburgh

plans are now finalized. We have been working long and hard at creating a program informative and beneficial to our membership. I hope you all can attend the Annual Conference: "The Information Professional: An Unparalleled Resource," June 10 - 14, 1990, Pittsburgh.

### 1990 SLA CONFERENCE AEROSPACE DIVISION

#### Sunday, June 10

3:00 - 4:30 p.m.

Executive Board Meeting

#### Monday, June 11

10:30 a.m. - 12:00 noon

"International Information: What We Should Expect -- What We Should Know" Part I: "Worldwide Information: The Technology Connection.

"(This is part I of a 3-part program, sponsored by 9 divisions.)

12:00 noon - 1:30 p.m.

Business Meeting and Lunch

1:30 - 3:00 p.m.

Part II: "Worldwide Information: The Human Connection -- North Atlantic"

3:00 - 4:30 p.m.

Part III: "Worldwide Information: The Human Connection -- The Pacific"

7:30 - 10:30 p.m.

Open House/Reception

**Tuesday, June 12**

10:30 a.m. - 12:00 noon

Workshop: "What's New in Patent Searching?" (Co-sponsored with Chemistry, Engineering, Metals & Materials, Sci-Tech Divisions)

1:30 - 3:00 p.m.

Program: "Marketing Library Services: Where to Begin & How to Succeed" (Co-sponsored with Engineering & Library Management Divisions)

9:00 - 11:00 p.m.

Open House

**Wednesday, June 13**

1:30 - 3:00 p.m.

"Understanding the Diffusion of Federally Funded STI"

9:00 - 11:00 p.m.

Open House

**Thursday, June 14**

9:00 a.m. - 3:00 p.m.

Field Trip:

Robotics Institute, Carnegie Mellon

Lunch

Egypt Hall, Carnegie Museum of Natural History (King Tut).

(Co-sponsored with Engineering and Sci-Tech Divisions)

I would like to encourage all members to try their best to attend the Division's Business Meeting and Lunch on Monday. If you have an agenda item, please let me know. Also, our Division will be sharing a suite in the Vista International Hotel with the Engineering Division. The suite will be open Monday evening through Wednesday evening and will be a good way to meet with old friends, peers, colleagues, and

make new contacts. Our big night will be on Monday and will include hors d'oeuvres and drinks. So far our sponsors for the Division Suite are AIAA/TIS, Mead Data Central and Information Handling Services.

The Hotel and meeting room numbers have not yet been officially assigned. However, the two meeting function Hotels will be the Vista International Hotel and the Pittsburgh Hilton. The Aerospace Division will have a suite in the Vista.

**PATRICIA MARSHALL  
HONORED**

The Aerospace Division is proud to announce that Patricia Marshall, Director of Library Resources for the American Institute of Aeronautics and Astronautics Technical Information Service in New York, has been selected as a Fellow of the Special Libraries Association. The designation of Fellow of the Special Libraries Association is given to individual members of SLA in recognition of their leadership in the field of special librarianship and for their outstanding contributions to the Association. Fellows are called upon to advise the Association's Board of Directors, to prepare discussion materials, and to alert the membership to issues and trends warranting action. No more than five members will be selected as Fellows each year. I'm sure most of you have benefitted from Patricia's outstanding efforts over the years in disseminating the information contained in the archival collections of the AIAA to the rest of the aerospace community. Congratulations, Patricia!

## MORE FREEBIES!

For those of you who would like to gain some insight into the technical communication habits of your manager and nonmanager clientele, there are now two new publications available for free as long as the supply lasts. The two publications are:

Technical Communications in Aeronautics: Results of an Exploratory Study: An Analysis of Managers' and Nonmanagers' Responses. NASA Technical Memorandum 101625 (August 1989) 51 p.

Technical Communications in Aeronautics: Results of an Exploratory Study: An Analysis of Profit Managers' and Nonprofit Managers' Responses. NASA Technical Memorandum 101626 (October 1989) 64 p.

Both of these publications are authored by Thomas E. Pinelli, Myron Glassman, Rebecca O. Barclay, and Walter E. Oliu.

These two reports continue their exploratory study investigating the technical communications practices of aeronautical engineers and scientists (see NASA TM 101534, pts. 1 & 2). The study had five specific objectives: 1) to solicit the opinions of aeronautical engineers and scientists regarding the importance of technical communications to their

profession; 2) to determine the use and production of technical communications by aeronautical engineers and scientists; 3) to seek their views about the appropriate content of an undergraduate course in technical communications; 4) to determine aeronautical engineers' and scientists' use of libraries, technical information centers, and online databases; and 5) to determine the use and importance of computer and information technology to them.

To order your free copies, please contact:

Tom Pinelli  
Mail Stop 180A  
NASA Langley Research Center  
Hampton, VA 23665-5225  
(804) 864-2491 (FTS 928)

## CRISS-CROSS & TRANSLATION DIRECTORIES STILL AVAILABLE

There are still a limited number of Volume II, Criss-Cross Directories available for sale. (Volume I is now out of print.) The price is \$55.00. Please contact:

Eleanor Zay  
NASA Lewis Research Center  
Mail Stop 60-1  
21000 Brookpark Road  
Cleveland, OH 44135  
(216) 433-5785

Also, there are still a limited number of Translations of Scientific & Technical Literature: A Guide to Their Locations, by Kathleen Wright, 1987, for sale. Price is \$20.00 (pre-paid). To order send check for \$20.00, payable to Aerospace Division, to:

Julia Keim  
186 Bedford Place  
Thousand Oaks, CA 91360  
(818) 710-3918

### FOR YOUR INFORMATION

AGARD (Advisory Group for Aerospace Research & Development) is sponsoring a Lecture Series No. 171 on the "Benefits of Computer Assisted Translation (CAT) to Information Managers and End-Users." This program will be held in three different locations during June 1990: June 14-15, AIAA Headquarters, Washington, D.C.; June 25-26, Etat Major General, Brussels, and June 28-29, Royal Aeronautical Society, London. There is no registration fee and simultaneous interpretation (English/French) will be provided in all three locations. This Lecture Series will be of particular interest to Information Scientists, Librarians, Translators, and anyone concerned with the problems of translation. For further information, please contact:

Barbara Lawrence  
AIAA/TIS  
55 W. 57th Street, Suite 1200  
New York, NY 10019  
(212) 247-6500

### NOMINATIONS AND ELECTIONS

By now you should have received your ballot for this year's elections. If you have not returned it, please do so as soon as possible. The Division needs to hear your voice.

The Nominating Committee would like to thank the following members for their willingness to serve as candidates this year:

#### Chair-Elect:

Sandy Moltz, GE, Lynn, MA

Mitzi Rinehart, Allied Signals  
Tempe, AZ

#### Secretary:

Sandy Spurlock, Honeywell  
Albuquerque, NM

Joyce Shields Baker, Lockheed  
Burbank, CA

I would also like to thank the members of the Nominating Committee for their fine work: Dee Hoelle, Princeton University; Veronica Hsu, GE; Patricia Marshall, AIAA/TIS.

**Betty Tyson**

### MEMBERSHIP DIRECTORY

Please return your Aerospace Division Membership Directory Information form to me, Mitzi Rinehart, Membership Chairman. Over 50% of our members have returned their forms but I need to include all of you. To make this a helpful and successful directory, I need YOUR

membership information. If you have misplaced or never received a form please call me for a replacement. Your help and rapid response is needed. My phone number is (602) 893-7162. Thanks.

**Mitzi Rinehart**

### MORE ON NAME CHANGE

Your editor has been receiving more feedback about the proposal to change the name of the Aerospace Division to the Aerospace/Defense Technologies Division. Sherril Hisaw at Hughes Aircraft in Los Angeles polled all the SLA members at Hughes (and a few nonmembers) and they all were in favor of changing the Division's name. That's a total of 12 official "yes" votes (SLA members) and 7 unofficial "yes" votes at Hughes.

Betty Tyson at Westinghouse in Sunnyvale, CA, wrote to tell me she doesn't agree with Ruth Smith's suggested name of "Aeronautics and Space Division." She doesn't feel Ruth's suggestion does anything but make the Division's name longer. Betty also passed on some comments by Cindy Davis of Sanders Associates in NH. Cindy makes the point that with defense being seen as kind of a "dirty" word these days due to recent outbreaks of peace and the move to cut defense spending, that the Division's name should simply stay the same.

What do you think? Is there some way to broaden our Division's appeal without appearing entrenched in military spending? Do you have a catchy name that can do just that? If so, let the rest of the Division

know by communicating it or any other thoughts you may have on this subject via this column in *Sci-Tech News*.

### CORRECTION

Sandy Moltz's phone number is (617) 594-5363. Sorry about that, Sandy.

### FINAL COMMENTS

Once again I voice my plea for contributions to this column. Don't be shy. I need your help. What's on your mind? Anything of interest to our Division will be considered for inclusion in this column. Please consider contributing. Write me at Engineering Library, Terman Engineering Center, Stanford University, Stanford, CA 94305-4029. Or call me at (415) 725-1012. Better yet, send me e-mail at [cn.sxg@forsythe.stanford.edu](mailto:cn.sxg@forsythe.stanford.edu) if you have access to BITNET.

**Steve Gass**



**SLA's 1990 Regional  
Continuing Education Program**

### **How To Work Smarter**

Denver	March 16	Omaha	Sept. 21
Nashville	April 6	Dearborn	Oct. 5
Minneapolis	April 27	Albuquerque	Nov. 2

**For further information contact  
SLA, Professional Development Section,  
202/234-4700.**

**SCI-TECH NEWS**  
**Financial Report**  
**as of December 31, 1989**

**BEGINNING BALANCE**

January 1, 1989                      \$1,820.09

**INCOME through**

December 31, 1989                  \$18,858.00

Advertising        \$7,580.00

Subscriptions      4,267.00

Divisions            7,011.00

**TOTAL FUNDS AVAILABLE through**

December 31, 1989                  \$20,678.09

**EXPENSES through**

December 31, 1989                  \$14,626.15

Printer              \$14,520.50

Bank Charges        6.35

Subscription

Manager Expenses 59.30

Photographs        40.00

**BALANCE as of**

December 31, 1989                  \$6,051.94

Respectfully submitted,  
 Virginia A. Ford, Business Manager

Audited: Susan B. Crowe 1-17-90

**Total Pages Vs. Advertising**

Issue	Total Pages	Advertising Pages	Percent	Cost
Jan	36	5.00	13.9	\$491.73
Apr	36	3.75	10.4	378.90
Aug	40	4.25	10.6	406.93
Oct	36	6.00	16.7	584.58

## Triennial Becomes Biennial: SLA Salary Survey Schedule Changes

To provide comprehensive salary data on a more frequent basis, SLA's triennial salary survey will become the biennial salary survey beginning in 1990. The full survey will be conducted every two, as opposed to every three, years. The salary survey updates, a random sampling of 25% of the membership with an abbreviated questionnaire, will be continued in the interim years.

In addition to the changed frequency, the salary survey instrument has undergone a few revisions to reflect the evolution of the field. Besides revisions to existing questions, a new section has also been added which deals with employee benefits. Your participation in the salary survey is vital, and your response will help to ensure meaningful results.

Questionnaires for the 1990 survey will be in the mail the first week in April. Please watch for your survey form and return it by the May 18, 1990 deadline. Thank you in advance for your support of and your participation in SLA's new biennial salary survey!

# New Science & Technology Journals

LYNN TINSLEY, EDITOR

Biomedical Optics. Editor: R. Steiner, Ulm. ISSN: 0934-0912. 1990: Volume 1, 4 issues. Springer-Verlag, New York. \$169.00.

Computer Optics. ISSN: 0955-355X. 1990: Volume 2, two issues. Pergamon Press Inc., Elmsford, NY.

Groundwater Pollution News. ISSN: 0899-3521. 1989: Published 24 times a year. Buraff Publications, Washington, D.C. \$419.00.

International Journal of Imaging Systems and Technology. ISSN: 0899-9457. 1989: Volume 1, two issues. (Four issues scheduled for 1990.) John Wiley, New York. \$75.00.

Journal of Cluster Science. Editors: David H. Russell and Boon K. Teo. ISSN: 1040-7278. Summer 1989: Volume 1, four issues (quarterly). Plenum Press, New York. \$115.00.

The Journal of Grey System. Editor: Deng Julong. ISSN: 0957-3720. 1989:

Volume 1, No. 1. Sci-Tech Information Services & China Petroleum Industry Press, Windsor & Beijing. 1989: \$124.00; 1990: \$248.00.

Journal of Materials Science: Materials in Electronics. Editor: A. Willoughby. ISSN: 0957-4522. 1990: Volume 1, four issues. Chapman and Hall, New York.

Journal of Software Maintenance: Research and Practice. ISSN: 1040-550X. 1989: Volume 1, No. 1, two issues (quarterly). John Wiley, New York. 1989: \$90.00; 1990: \$180.00.

Microwave and Optical Technology Letters. ISSN: 0895-2477. 1990: Volume 3, twelve issues. John Wiley, New York. \$155.00.

Random Structures and Algorithms. ISSN: 1042-9832. 1990, Volume 1, quarterly. John Wiley, New York. \$125.00.

## SLA's *Resume Referral Service*



A computer matching service for positions in the library/information field. Both employers and job applicants may obtain further information from SLA's, Professional Growth Section, 202/234-4700.



# BOOK REVIEWS

RON BUCHAN, EDITOR

## AEROSPACE

*Around the world in eight days.* By Wiley Post and Harold Gatty. New York: Crown Publishers; 1989 (reprint of 1931 edition). 209 p. \$9.95.

The adventures of pilot Wiley Post and navigator Harold Gatty in the "Winnie Mae" during a record-setting, world-girdling flight in 1931 are presented. Verbatim statements by the aviators describe the problems encountered during the flight and how the problems were solved. The preparations for the flight, the procedures for flying in bad weather, the navigational techniques, and the hazards encountered are woven into an exciting account of courage and endurance. The book contains photographs and charts to support the written account and concludes with photo-stats of the navigator's log. Brief biographies of the two men set the stage for the events which led up to the flight.

Philip N. French  
NASA STI Facility  
RMS Associates

*Beyond the limits; flight enters the computer age.* By Paul E. Ceruzzi. Cambridge, Mass.: The MIT Press; 1989. 269 p. Paperback \$17.50.

The significant impact of high speed computers on various phases of technology, especially aerospace developments, is presented. The author discusses the evolution of computer systems to show the

major improvements made since World War II. Emphasis is placed on advances made through Computer Aided Design and Computer Aided Manufacturing (CAD/CAM) which would have been impossible otherwise. The book is well illustrated, and specific examples of computer applications are thoroughly investigated.

Philip N. French  
NASA STI Facility  
RMS Associates

*Orbital debris from upper stage breakup.* Edited by Joseph P. Loftus, Jr. Washington: American Institute of Aeronautics and Astronautics; 1989. 227 p. \$59.95

The Low Earth Orbit (LEO) between 500 and 2000 kilometers is analyzed with respect to the growing amount of man-made debris (space trash) and the implications for future space missions. Concern is expressed for the possibility of hypervelocity collision of pieces of debris with space structures. Methods of detecting various sized fragments, the current extent of fragment population, and proposals for reducing fragment production are described. Charts and tables are included to quantify the written account.

Philip N. French  
NASA STI Facility  
RMS Associates

*Magill's survey of science; space exploration series.* Edited by Frank N. Magill. Pasadena, CA: Salem Press; 1989. 5v. 2390 p. \$400.00.

Space buffs will find the well tailored summary articles a delight. There are 335 articles in the set to choose from by 146 space experts. A list of authors appears at the beginning of volume 1, but no author/title index. The problem of author access promises to be somewhat remedied because selected articles will be indexed in the *International Aerospace Abstracts*. The significant accomplishments which have resulted from mankind's urge to explore space are clearly presented in this five-volume compilation.

The background of the National Aeronautics and Space Administration (NASA) and its activities are prominently featured, including the functions and responsibilities of the NASA Centers. There are articles for each NASA center such as the NASA Ames Research Center. Each summary article includes date of establishment, type of center, a brief synopsis of center programs, and a listing of principal personages. Also included are the context of a center's programs with respect to industries, universities, government agencies, foreign organizations, a bibliography or pertinent reference material, and a cross-reference section to other articles in the set.

The Mercury, Gemini, and Apollo flights which led to the eventual lunar landings and explorations and the U.S. Space Shuttle missions are developed using a standard format. There are often individual articles about both U.S. and Soviet flights. The articles consist of the date, the type of program, a synopsis,

principal personages, a summary of the mission, the knowledge gained, the context with respect to other activities, a bibliography and cross references. Soviet emphasis is on Sputnik, Voskhod, Soyuz, and the Salyut and Mir space stations.

Unmanned programs in the form of communications, remote sensing, meteorological, solar observing, early warning, geophysical, and astronomical satellites are some topics presented in the same format as that for the manned missions. Additionally, the content of the compilation is expanded to include information on the Big Bang Theory, extraterrestrial intelligence searching, space radiation, solar physics, planetary evolution, interstellar space, and the Strategic Defense Initiative.

Each volume concludes with listings of the articles contained in all the volumes; alphabetically by title and by category (not alphabetized). The fifth volume also contains a glossary of definitions, a chronological profile, and an overall index which includes persons mentioned in articles, subjects, but not authors. This compilation will be followed by Earth Sciences in 1990, Life Sciences in 1991, and Applied Sciences in 1992.

Philip N. French  
Ronald L. Buchan  
NASA STI Facility  
RMS Associates

*Stealth.* By Doug Richardson. New York: Crown Publishers; 1989. 192 p. \$24.95.

Measures and countermeasures conducted by the designers of military aircraft and their opposition in the radar industry are discussed. When improvements

are made in systems for detecting aircraft in flight, the aircraft industry must devise methods to reduce the effectiveness of the new equipment. The author presents a thorough analysis of the developments which initiated the need for Stealth weapons, the technology which resulted in Stealth designs, and the relative effectiveness of a variety of military aircraft with Stealth features. The written account is well supported by a generous supply of photographs, charts and drawings. The employment of the F-117 Stealth fighter in Panama and the controversy surrounding the B-2 Stealth bomber make this book especially timely.

Philip N. French  
NASA STI Facility  
RMS Associates

## BIOLOGY

*What mad pursuit.* By Francis Crick. New York: Basic Books; 182 p. \$16.95.

*What mad pursuit* is one of a series of books by the Alfred P. Sloan Foundation. Their goal is to bring the thrill of scientific discovery to the non-scientist. In this respect, Francis Crick has done a marvelous job. He has presented all the work leading up to the final solution of the structure of DNA, including the failures and false starts. The book is in more or less chronological order, starting with his life -- what sparked his interest in Science -- and concluding with the research he is doing now -- studying the brain. There is even a little bit about Hollywood. As this book is written with the non-scientist in mind, there are numerous illustrations and appendices to

help explain the more technical aspects of the subject, but for those wishing to avoid scientific details and concentrate on the story under the theory, Crick notes in his introduction which chapters may safely be skipped.

Heather Buchan  
Johns Hopkins University

## COMPUTERS

*C tools for scientists and engineers.* By Louis Baker. New York: McGraw-Hill; 1989. 324 p. Paperback. \$29.95.

The program listings and test specifications occupy over half of this volume. Two concise chapters on general numerical analysis and the C language precede the eleven problems selected for presentation: LU decompositions for solving linear systems, eigenvalue and discriminant analysis, singular value decomposition, the Newton-Raphson method, complex arithmetic, B-spline interpolation, adaptive quadrature, fast Fourier transforms, ordinary differential equations, stiff systems of differential equations, and scatter plotting. Cogent introductions have been tailored to fit each problem; many practitioners will find them sufficient to guide their initial application of a method. The programs are introduced in prose, referenced to their sources, and completely listed in well commented C.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

*LaTeX for engineers and scientists.* By David J. Buerger. New York: McGraw-Hill; 1990. 198 p. Paperback. \$29.95.

LaTeX is a system of macros for formatting text on both micros and mainframes. Typesetting examples are graduated from the simple to the mathematically and typographically more complex. Basic equations, multiline equations, tables, figures, footnotes and cross references are programmed, as well as simpler variations in type styles and sizes. Sample problems (with answers) are included to provide for a more hands-on learning approach than just reading alone. The book itself was prepared using LaTeX.

Paul B. Purcell  
NASA STI Facility  
RMS Associates

*Neural and massively parallel computers: the sixth generation.* By Branko Soucek and Marina Soucek. New York: John Wiley; 1988. 460 p. \$49.95.

The four parts of this work, "Sixth Generation Computers," "Computer Models of Brain and Behavior," "Neurocomputers and Genetic Systems," and "Associative and Parallel Computers, Concurrent Systems," comprise a wide-ranging review of research in computer science, cognition, biology and linguistics which has been expanding notions of computing. The volume's subtitle evokes the historical interpretation of computers having developed from vacuum tubes to expert systems in five generations. The table of contents presents the work's excellent architecture and provides reference access to the many projects

summarized therein; the author index identifies researchers whose efforts are discussed in the text, and the terse subject index supplements the table of contents. A cursory selection of topics indicates the work's scope: time coding in insects, brain-window logic, adaptive learning systems, the ANZA neurocomputer, genetic algorithms, associative memories, the Connection Machine, hypercubes, transputers, and OCCAM.

G. Michael Van Ty Smith  
NASA STI Facility

## ELECTRICAL ENGINEERING

*Transient system analysis on a personal computer.* By Carl Eichenauer. New York: John Wiley; 1988. 392 p. \$44.95.

Transient analysis of electrical circuits is the primary emphasis of this volume; treatment of mechanical systems receives significant, but secondary, consideration. The introductory chapters on fundamental mathematics, determinants and matrices, networks, and electricity begin immediately to present the BASIC programming techniques emphasized throughout the book. Mathematical equations are offered in a typography and style very similar to BASIC programming conventions; this enhances readers' ability to shift readily from theory to application, from equation to program. Several chapters concentrate on Laplace transforms, and the work concludes with introductions to such techniques as numerical integration, matrix solutions, and nonlinear element modeling. The 28 appendices contain BASIC source code for the programs discussed in the

chapters, and a disk version of the code is separately available from the publishers.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

## ELECTRONICS

*Electronics engineering for professional engineers' examinations.* 2d edition. By Charles R. Hafer. New York: McGraw-Hill; 1989. 340 p. \$34.95.

Four groups of solved problems are presented: discrete semiconductors and integrated circuits (30 problems); circuit analysis (22); servo control and feedback (15); and instrumentation, computer, and system problems (22). Problems comprise about three-quarters of this work; the remaining quarter consists of eleven appendices on such areas as bipolar transistor gain and impedance, operational amplifiers, Laplace transforms, Fourier series, and RC transfer functions. A succinct index provides reference access to the problems. Not a tutorial, this work focuses exclusively on its primary audience: students preparing for the NCEE examination and professionals requiring a reference of solved problems. Problems have been carefully selected and are pitched at a level at or above that of the targeted examination; they are lucidly solved and well referenced.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

*Handbook of surface mount technology.* By Stephen W. Hinch. New York: John Wiley; 1988. 481 p. \$74.95.

Mounting electronics components on the *surface* of their circuit boards as opposed to soldering leads which pass *through* the boards offers advantages like greater compaction, better electrical performance, lower cost, and improved quality. A more demanding approach, surface mount technology requires greater attention to heat dissipation, the strength and flexibility of solder joints, and has associated with it greater startup costs. This volume comprises four parts: the technology and its standardization, the component parts (passive components, semiconductors, connectors, and solder), design approaches (assembly and layout), and manufacturing technology (factories and process flows, solder pastes and application, component replacement, reflow soldering, wave soldering, post-solder cleaning, testing, and repair). As with many newer technologies, surface mounting is replete with sales-based *technical* information; this volume's independent discussion of such topics as reflow soldering will be particularly valuable.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

*Intuitive IC electronics: a sophisticated primer for engineers and technicians.* 2d edition. By Thomas M. Frederiksen. New York: McGraw-Hill; 1989. 203 p. Hardcover, \$39.95; paperback, \$19.95.

Here is a work for those readers who need or desire an understanding of the semiconductor devices used in today's inte-

grated circuits, but whose interests fall short of requiring the full theoretical treatment appropriate for an electrical engineering specialist. Even within this group of semi-specialists, differing levels can be accommodated by readers' beginning with different chapters. The first chapter provides an intuitive introduction to electricity and electronics; the second to semiconductor diodes and bipolar transistors. There is a brief review of manufacturing technologies, and then the three most concentrated chapters are: "Bipolar Integrated Circuits: The Whole Thing on One Chip," "Junction Field-Effect Transistors," and "Metal-Oxide Semiconductor Field-Effect Transistors (MOS-FETs)." Throughout, mathematical equations are minimized, and a detailed understanding of those presented is not imperative to a useful reading of the book. Both the table of contents and the index are sufficiently detailed to support reference purposes. Footnotes are not employed; they would have interfered with the work's readability and fundamental purpose. The twelve references included in the bibliography are more than adequate to support readers who desire more.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

This book is a valuable resource for an engineering and science library. Written by the National Research Council as an overview of the state-of-the-art as well as the futures of the various fields of materials science and engineering, it presents these topics on a level useful for a survey of the subject or as a starting point for the researcher looking for more in-depth sources. A variety of topics is covered, ranging from automated steel production to the synthesis of artificial skin. Many of the more esoteric topics are presented in the form of illustrations and figures with well written captions. But perhaps the most interesting topic or theme is that of the future needs and trends in personnel, research and education in the materials science fields. The U.S. is compared to its foreign economic competitors in these areas; further, results and recommendations are given.

It should be stressed that this book does not cover any particular topic in the field of materials science in depth technically. Rather, it surveys a large number of topics to a lesser degree, making it a valuable resource for a science library.

William R. Pogue  
Composites Research Laboratory  
University of Maryland  
College Park

## MATERIALS SCIENCE

*Materials science and engineering for the 1990s: maintaining competitiveness in the age of materials.* By National Research Council (U.S.) Committee on Materials Science & Engineering. Washington, D.C.: National Academy Press; 1989. 294 p.

## PHYSICS

*Introduction to the optical transfer function.* By Charles S. Williams and Orville A. Becklund. New York: John Wiley; 1989. 412 p. \$44.95.

Theory and practice involving the optical transfer function (OTF) have

steadily grown as a complement and alternative to geometrical perspectives and ray-tracing techniques for treating optical and imaging phenomena. This volume gently leads readers from simple, intuitive concepts up to and through advanced undergraduate-level mathematical expressions involving convolutions and Fourier transforms. Throughout, the tone is applied and practical. Appendices on calculated OTF functions, mathematical foundations, and diffraction integral fundamentals serve their purpose well. The detailed index renders the work as useful in a handbook sense as it is valuable for tutorial purposes.

G. Michael Van Ty Smith  
NASA STI Facility  
RMS Associates

## PSYCHOLOGY

*Aviation psychology*. Edited by Richard S. Jemsen. Brookfield, Vt.: Gower Publishing Co.; 1989. 430 p. \$74.95.

The subject of human factors engineering as related to aviation systems is presented. The text consists of sixteen reports by various authorities in the fields of engineering, education, psychology, and physiology. The overall objective of the study is to discuss equipment and techniques for reducing the workload of the aircrew and optimizing their performance. The application of aviation psychology has achieved increasing importance because of the demands placed on human operators by the complexity of modern military and civil aircraft.

Philip N. French  
NASA STI Facility  
RMS Associates

SLA's 1990 Regional Continuing  
Education Program

### Mainstreaming the Special Library

Toronto, ON	March 30
Boston, MA	April 20
Chicago, IL	May 11
Sacramento, CA	Oct. 12
Princeton, NJ	Oct. 26
Daytona Beach, FL	Nov. 9

For further information contact SLA's Professional  
Development Section, 202/234-4700.

## Working Smarter the Key to Success

In today's hectic business environment, the key to success is working smarter, not harder. SLA's 1990 Regional CE course "How to Work Smarter," taught by Randy Bauer, will help you improve a range of business management and human relations skills.

Randy Bauer, one of SLA's most popular instructors, is president, Leadership Training Associates, a management training firm. Mr. Bauer consistently receives outstanding evaluations at SLA's Annual and Winter Education conferences. His teaching techniques include a combination of lecture, small group discussion, group exercises, and self-awareness activities.

During the first portion of "How to Work Smarter" the attendee will learn practical techniques guaranteed to eliminate time-wasting behavior, improve concentration, and reduce stress. Mr. Bauer suggests techniques in how to get more done in less time and how to manage stress and avoid burnout.

The second portion of the program concentrates on improving human relations skills such as conflict management, effective listening, and assertiveness. You will learn to identify communication strengths, different communication styles, and the art of listening. These new skills can be used to streamline communication with supervisors, subordinates, co-workers, and the public.

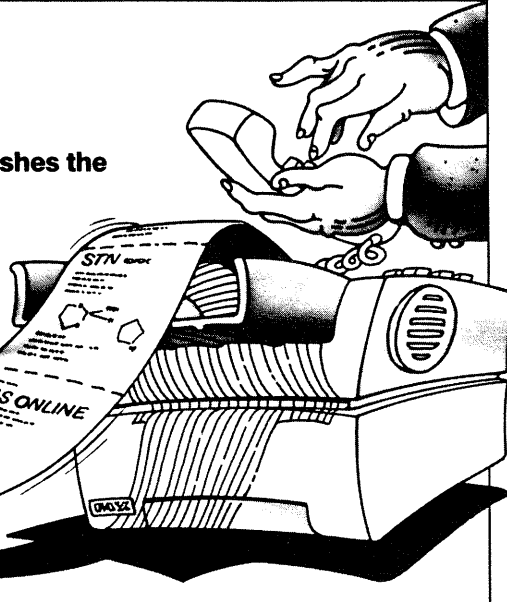
The 1990 "Working Smarter" schedule includes:

Denver, CO	March 16
Nashville, TN	April 6
Minneapolis, MN	April 27
Omaha, NE	September 21
Dearborn, MI	October 5
Albuquerque, NM	November 2

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**12th International CODATA Conference  
"Data for Discovery"**

**July 15-19, 1990**

**Hyatt on Capitol Square Hotel  
Columbus, Ohio**

The International Council of Scientific Unions (ICSU), committee on Data for Science and Technology (CODATA) will hold its 12th International Conference on July 15-19, marking the first such biennial CODATA conference to be held in the U.S. since 1976. With the theme "Data for Discovery," the Conference will highlight the management aspects of the ICSU Global Change Program and provide an appropriate framework for discussion by international experts on the following subjects:

- Prediction of Global Change
- Spatial Databases
- Materials Data Systems
- Expert Systems and Other Knowledge Tools
- Trends in Integration of Information
- Impact of New Technology on Data Handling

The 12th International CODATA Conference is an opportunity for scientists worldwide to share their approaches to improving the quality, reliability, management, and accessibility of data of importance to science and technology. The exciting and informative scientific program will include not only lectures by invited speakers, contributed papers, and poster sessions to encourage informal discussions among participants, but also an exhibit of relevant products and services, database demonstrations, and a display of scientific books.

For a Preliminary Program and registration information, contact: Emmett L. Crawley, Chemical Abstracts Service, P.O. Box 3012, Columbus, OH 43210; telephone, (614) 447-3600, Fax, (614) 447-3713.